

Title (en)

TOUCH SENSOR INCLUDING TOUCH SENSING ELECTRODES

Title (de)

BERÜHRUNGSSENSOR MIT BERÜHRUNGSEMPFINDLICHEN ELEKTRODEN

Title (fr)

CAPTEUR TACTILE COMPRENANT DES ÉLECTRODES DE DÉTECTION TACTILE

Publication

EP 3561649 A1 20191030 (EN)

Application

EP 19168651 A 20190411

Priority

KR 20180049201 A 20180427

Abstract (en)

A touch sensor includes a base layer and a plurality of first touch electrodes disposed on the base layer. The plurality of first touch electrodes are arranged in a first direction. The plurality of first touch electrodes include openings, and are electrically connected to one another. A plurality of second touch electrodes are disposed on the base layer. The plurality of second touch electrodes are arranged in a second direction. The plurality of second touch electrodes are electrically connected to one another. First pressure sensing electrodes and second pressure sensing electrodes are separated from each other and are disposed in the openings. The pressure sensing electrodes and second pressure sensing electrodes are spaced apart from the first touch electrodes. The first pressure sensing electrodes, the first touch electrodes, and the second touch electrodes are all disposed in a first layer.

IPC 8 full level

G06F 3/044 (2006.01)

CPC (source: CN EP US)

G06F 3/0412 (2013.01 - US); **G06F 3/0414** (2013.01 - CN); **G06F 3/04144** (2019.05 - EP US); **G06F 3/0416** (2013.01 - CN US); **G06F 3/044** (2013.01 - US); **G06F 3/0443** (2019.05 - EP); **G06F 3/0446** (2019.05 - EP); **H10K 50/8445** (2023.02 - US); **H10K 59/40** (2023.02 - US); **G06F 3/04164** (2019.05 - EP); **G06F 2203/04104** (2013.01 - US); **G06F 2203/04105** (2013.01 - EP); **G06F 2203/04106** (2013.01 - EP); **H10K 59/8731** (2023.02 - CN EP)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3561649 A1 20191030; **EP 3561649 B1 20230628**; CN 110413147 A 20191105; CN 110413147 B 20240517; KR 102475958 B1 20221209; KR 20190125555 A 20191107; US 11481053 B2 20221025; US 2019332212 A1 20191031

DOCDB simple family (application)

EP 19168651 A 20190411; CN 201910342564 A 20190426; KR 20180049201 A 20180427; US 201916363345 A 20190325